

## ABSTRACT

A dual fuel power generation system employing a steam-mixed fuel and/or a gaseous fuel to power a turbine engine. The steam-mixed fuel is a gaseous mixture of a light hydrocarbon and steam. The steam-mixed fuel and gaseous fuel are delivered to the 5 turbine engine (either individually or mixed) via a common fuel controller, a common fuel distribution system, and a common gas-only fuel nozzle.